19/	aperwork Reduction Act of 1995	. no perso	U.S. ons are required to respond to a c Application Number	Patent and Tollection of in	PTO/SB/21 (09- Approved for use through 03/31/2007. OMB 0651-00 Trademark Office; U.S. DEPARTMENT OF COMMER formation unless it displays a valid OMB control numb
ADEMASS. TF	RANSMITTAL		Filing Date	April 20, 2	2004
	FORM		First Named Inventor	David W.	Caldwell
			Art Unit	3729	
,,,,,,,,,,,,		Elia al	Examiner Name	Carl J. Arl	bes
	r all correspondence after initial		Attorney Docket Number	37041-114	481
Total Number of	of Pages in This Submission	35		37047-77	
		ENG	CLOSURES (Check a	!! that appi	y)
Amendri  Extensio  Express  Informat  Certified Docume  Reply to	ree Attached rent/Reply After Final Affidavits/declaration(s) on of Time Request Abandonment Request ion Disclosure Statement Copy of Priority ont(s) Missing Parts/ ete Application	Rem	Drawing(s)  Licensing-related Papers  Petition  Petition to Convert to a Provisional Application Power of Attorney, Revocatic Change of Correspondence  Terminal Disclaimer  Request for Refund  CD, Number of CD(s)  Landscape Table on Carks	Address	After Allowance Communication to T  Appeal Communication to Board of Appeals and Interferences  Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)  Proprietary Information  Status Letter  Other Enclosure(s) (please Identify below):  1. Four References 2. International Preliminary Examination Report 3. Postcard
	Reply to Missing Parts inder 37 CFR 1.52 or 1.53	TURE	OF APPLICANT, ATTO	ORNEY, (	OR AGENT
Signature	Mun				
Printed name	Mark P. Vrla				
Date	October 12, 2006			Reg. No.	43,973
		ERTIF	ICATE OF TRANSMISS	SION/MA	
I hereby certify to sufficient postage the date shown in	e as first class mail in an en	eing fac velope a	simile transmitted to the USP	TO or depo	sited with the United States Postal Service wit P.O. Box 1450, Alexandria, VA 22313-1450 or

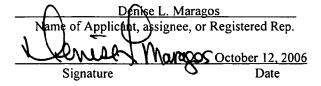
This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

10/16/2006 10828997 - GAU: 3729

I be by certify that this correspondence is being posited with the U.S. Postal Service as First-Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on October 12, 2006.

PATENT Attorney Docket 37041-11481



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: David W. Caldwell, et al.

Serial No: 10/828,997

Filed: April 20, 2004

Title SUBSTRATE WITH MULTIPLE CONDUCTIVE LAYERS AND

METHODS FOR MAKING AND USING SAME

Group Art Unit: 3729

Examiner: Carl J. Arbes

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98 and in compliance with 37 C.F.R. § 1.56, the Office's attention is directed to the references listed on the attached PTO/SB/08A and B. A copy of each listed document is enclosed, including, as applicable, an English language abstract indicating the relevance of the document.

Receipt date: 10/16/2006 10828997 - GAU: 3729

The undersigned hereby certifies that each item of information contained in this

Statement was first cited by the international searching authority in connection with a

corresponding international application not more than three months before the filing of this

Statement. Applicant believes that this Statement is being filed before the mailing of an action

closing prosecution on the merits. In view of the above, and pursuant to 37 C.F.R. § 1.97(c),

Applicant believe that no fee is required for the consideration for this Statement. In the event

Applicant is mistaken and the Office deems that the fee set forth in 37 C.F.R. § 1.17(p) is due,

the Office is authorized to charge such fee to Deposit Account No. 10-0460.

Respectfully submitted,

Mark P. Vrla

Registration No. 43,973

Dated: October 12, 2006

JENNER & BLOCK LLP

330 North Wabash Avenue

Chicago, IL 60611

Telephone No: (312) 222-9350

Facsimile No: (312) 527-0484

Pecei St Quite: 10/16/2006

Sheet 1

PTO/SB/08A (09-06)
Approved for use through 03/31/2007. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

er the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of 2

	Complete if Known				
	Application Number	10/828,997			
	Filing Date	April 20, 2004			
	First Named Inventor	David W. Caldwell			
	Art Unit	3729			
	Examiner Name	Carl J. Arbes			
_	Attorney Docket Number	37041-11481			

			U. S. PATENT D	OCUMENTS	
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2 (d known)</sup> US-			
		US-			
		US-			
		US-			
-		US-			
		US-			
		US-	The state of the s		
		US-	The state of the s		
		US-	7		
		US-			
		US-		The state of the s	
		US-		The state of the s	
		US-			
	-	US-			The state of the s
		US-			***
		US-			

		FORE	IGN PATENT DOC	JMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3</sup> "Number <sup>4</sup> "Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	™
		JP 02-067522	03/1990	Hayaji et al.		
		JP 04-032195	02/1992	Yamamoto et al.		
		JP 04-069979	03/1992	Yoritomi et al.		
		JP 07-140487	06/1995	Masaaki et al.		

Examiner		Date	] _ (
Signature	/Carl Arbes/	Considered	1/13/11

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08B (09-06)
Approved for use through 03/31/2007. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitut	Substitute for form 1449/PTO			Complete if Known		
Cabana		.0		Application Number	10/828,997	
INF	ORMATIC	ON DIS	CLOSURE	Filing Date	April 20, 2004	
STA	(Use as many sheets as necessary)			First Named Inventor	David W. Caldwell	
				Art Unit	3729	
				Examiner Name	Carl J. Arbes	
Sheet	2	of	2	Attorney Docket Number	37041-11481	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		International Preliminary Examination Report Dated October 4, 2006	
	Jr		

Examiner	/Carl Arbes/	Date	2/37/33
Signature		Considered	1/13/11

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.